intellibooks

How to Build an AI Agent

1. Define Purpose & Scope

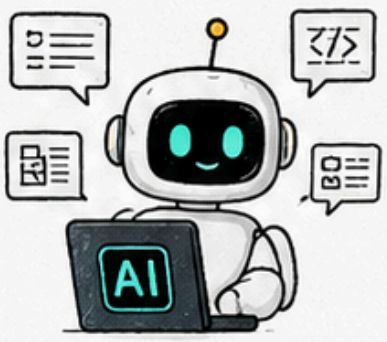
- Use case
- User needs
- Success criteria
- Constraints

2. System Prompt Design

- Goals
- Role / Persona
- Instructions
- Guardrails

3. Choose LLM

- Base model
- Parameters (temp, top-p)
- Context window
- Cost/ latency



4. Tools & Integrations

- APIs (web, data)
- Databases & storage
- AI tools & services
- Custom functions

5. Memory Systems

- Episodic (memory)
- Semantic (memory)
- Vector store
- SQL / structured
- File storage

6. Orchestration

- Workflows / flows
- Triggers
- Parameters
- Message queues
- Agent routing
- Error handling

7. User Interface

- Chat interface
- Web app
- API endpoint
- Slack/ Discord bot

8. Testing & Evals

- Unit tests
- Latency testing
- Quality metrics
- Iterate & improve

	Product/ Platform	LLM	Deployment	Key Features	Best For
Consumer AI Agents	ChatGPT (OpenAI)	GPT-4o	Cloud	Custom GPTs, voice, vision, memory, DALL·E integration	General purpose assistant, creative work
	Claude (Anthropic)	Claude 3.5	Cloud	Projects, artifacts, analysis, 200K context	Research, writing, coding
	Perplexity	Multiple	Cloud	Search-first, citations, Pro search	Research assistant, fact-checking
Agentic Coding Tools	Cursor	Claude, GPT-4o	Local + Cloud	Full IDE, composer mode, multi-file editing	Professional developers, complex projects
	Windsurf (Codeium)	Cascade	Local + Cloud	Flows, agentic editing, codebase awareness	Team development, large codebases
	Claude Code (Anthropic)	Claude 3.5	Local	Terminal-native, git integration, autonomous coding	CLI workflows, automation scripts
No-Code Builders	Lindy	GPT-4o	Cloud	3000+ integrations, natural language workflows	Business automation, non-technical teams
	Relay.app	GPT-4o	Cloud	Human-in-loop, Gmail/Slack native	Team workflows, approvals needed
	n8n	Multiple	+ Cloud	400+ integrations, self-host, open source	Technical teams, data privacy needs
Development Frameworks	LangGraph	Any	Local / Cloud	Graph-based flows, state management, cycles	Complex workflows, production apps
	CrewAI	Any	Local / Cloud	Role-based, 40+ integrations, task delegation	Multi-agent teams, autonomous systems
	LlamaIndex	Any	Local / Cloud	RAG-first, data connectors, query engines	Knowledge-intensive apps, document Q&A